

In the claims:

Add the following claims as attached.

REMARKS

The last Office Action has been carefully considered.

It is noted that the Examiner restricted the present application to one of the two inventions, namely:

1. A starter generator;
2. A method of making a starter generator.

In the Examiner's opinion the process as claimed can be used to make other and material different product, or the product as claimed can be made another and materially different process.

With the present Amendment applicants have submitted claims 19, 20, 21, 22 and 23 which correspond to the original claims 10, 11, 13, 14 and 15 but instead define the starter generator.

In connection with the Examiner's restriction requirement, the applicants have elected for further prosecution the invention of the starter

generator. It is believed that claims 1-8 as well as new claims 19-23 are readable on the elected invention.

At the same time the Examiner's restriction requirement is respectfully traversed for the following reasons.

Claim 1 and 9 include identical limitations. The starter generator of claim 1 can not be made by any method which is different from the method define in claim 9. On the other hand the method defined in claim 9 can produce only the starter generator as defined in claim 1. Therefore, it is believed that both inventions have to be retained in this application.

Also, it is respectfully submitted that the present application is a U.S. national phase of the PCT application. In accordance with the PCT regulations, in particular chapter (13), it is allowed to retain in a single application a product and a method of producing of a product. Also, since the United States is a signatory to the PCT, the examination in the United States has to follow the PCT rules in particular Rule (13). This has been confirmed in the decision in re Caterpillar Tractor Company V. Commissioner of Patents and Trademarks of May 28, 1988 as reported in 231 USPQ 590.

It is therefore respectfully requested to retain in this application both inventions and all claims drawn to the both inventions and examine the claims correspondingly.

Reconsideration and allowance of present application is most respectfully requested.

Should the Examiner require or consider it advisable that the specification, claims and/or drawings be further amended or corrected in formal respects in order to place this case in condition for final allowance, then it is respectfully requested that such amendments or corrections be carried out by Examiner's Amendment, and the case be passed to issue. Any costs involved should be charged to the deposit account of the undersigned (No. 19-4675). Alternatively, should the Examiner feel that a personal discussion might be helpful in advancing this case to allowance, he is invited to telephone the undersigned (at 631-549-4700).

Respectfully submitted,



Michael J. Striker
Attorney for Applicants
Reg. No. 27233

CLAIMS

New claims:

C³
19. The starter generator as defined in claim 1, wherein the metal sheets are formed as sheets selected from the group consisting of punch packed, welded, adhesively bonded and riveted metal sheets.

20. The starter generator as defined in claim 1; and further comprising short-circuit bars (18) and/or short-circuit rings (20) which are formed on the rotor as bars and/or rings selected from the group consisting of aluminum cast bars and/or rings and copper cast bars and/or rings.

21. The starter generator as defined in claim 1, wherein the cooling tubes (28) are formed as cooling tubes which are pressed-fitted into the stator.

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~~21~~. The starter generator as defined in claim 1, wherein the cooling tubes (28) have a knurling on their tube surface.

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~~22.~~ The starter generator as defined in claim 1, wherein the cooling tubes (28) are placed in the recesses (26) of the stator (12) and then widened by a mandrel.

Amend the following claims:

2. The starter generator of claim 1, [characterized in that] wherein the structural elements of the rotor (14), individually or combined, include a hub, a bearing seat (16), and a sensor ring for detecting rpm and/or the direction of rotation.
3. The starter generator of claim 1, [characterized in that] wherein the structural elements of the stator (12), individually or combined, include a pin bore (24), a bore pattern, and a cooling system (27).
4. The starter generator of claim 1, [characterized in that] wherein a part of the cooling system (24) is formed by recesses (26) on the outer edge of the stator (12), and the recesses (26) serve to receive cooling tubes.
5. The starter generator of claim 3, [characterized in that] wherein the cooling system (27) is accommodated in the interior of the stator (12) (internal cooling).

6. The starter generator of claim 3, [characterized in that] wherein the cooling system (27) is accommodated on the outer edge of the stator (12), and an outer jack face (34) of the cooling system (27) is formed by a wall (38) of a gear ball (external cooling).

7. The starter generator of claim 5, [characterized in that] wherein for sealing off the cooling system (27), a sealing means (36) is applied in the region of the jacket faces (34) of the cooling system (27).

8. The starter generator of claim 7, [characterized in that] wherein the sealing means (36) is an electroplated coating, a heat-resistant and coolant-resistant paint, or a synthetic resin.

10. The method of claim 9, [characterized in that] wherein the joining is done by punch packing, welding, adhesive bonding or riveting.

11. The method of claim 9, [characterized in that] wherein short-circuit bars (18) and/or short-circuit rings (20) are created on the rotor (14) by aluminum casting or copper casting.

12. The method of claim 9, [characterized in that] wherein a geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, recesses (26) are present, into which cooling tubes (28) are placed.

13. The method of claim 12, [characterized in that] wherein the cooling tubes (28) have a knurling on their tube surface, which increases a retention force on the stator (12).

14. The method of claim 12, [characterized in that] wherein the cooling tubes (28) are press-fitted into the stator (12).

15. The method of claim 12, [characterized in that] wherein the cooling tubes (28) are placed in the recesses (26) of the stator (12) and are then widened by means of a mandrel.

16. The method of claim 9, [characterized in that] wherein the geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, a cooling system (27) in the interior of the stator (12) is embodied (internal cooling).

17. The method of claim 9, [characterized in that] wherein the geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, a cooling system (27) is embodied on the outer edge of the stator (12), and an outer jacket face (34) of the cooling system (27) is formed by a gear bell (external cooling).

18. The method of claim 1, [characterized in that] wherein a sealing means (36) is applied in the region of the jacket faces (34) of the cooling system (27).

Amended claims:

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2. The starter generator of claim 1, wherein the structural elements of the rotor (14), individually or combined, include a hub, a bearing seat (16), and a sensor ring for detecting rpm and/or the direction of rotation.

3. The starter generator of claim 1, wherein the structural elements of the stator (12), individually or combined, include a pin bore (24), a bore pattern, and a cooling system (27)

4. The starter generator of claim 1, wherein a part of the cooling system (24) is formed by recesses (26) on the outer edge of the stator (12), and the recesses (26) serve to receive cooling tubes.

5. The starter generator of claim 3, wherein the cooling system (27) is accommodated in the interior of the stator (12) (internal cooling).

6. The starter generator of claim 3, wherein the cooling system (27) is accommodated on the outer edge of the stator (12), and an outer jack face (34) of the cooling system (27) is formed by a wall (38) of a gear ball (external cooling).

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7. The starter generator of claim 5, wherein for sealing off the cooling system (27), a sealing means (36) is applied in the region of the jacket faces (34) of the cooling system (27).

8. The starter generator of claim 7, wherein the sealing means (36) is an electroplated coating, a heat-resistant and coolant-resistant paint, or a synthetic resin.

C2

10. The method of claim 9, wherein the joining is done by punch packing, welding, adhesive bonding or riveting.

11. The method of claim 9, wherein short-circuit bars (18) and/or short-circuit rings (20) are created on the rotor (14) by aluminum casting or copper casting.

12. The method of claim 9, wherein a geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, recesses (26) are present, into which cooling tubes (28) are placed.

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cont.

13. The method of claim 12, wherein the cooling tubes (28) have a knurling on their tube surface, which increases a retention force on the stator (12).

14. The method of claim 12, wherein the cooling tubes (28) are press-fitted into the stator (12).

15. The method of claim 12, wherein the cooling tubes (28) are placed in the recesses (26) of the stator (12) and are then widened by means of a mandrel.

16. The method of claim 9, wherein the geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, a cooling system (27) in the interior of the stator (12) is embodied (internal cooling).

17. The method of claim 9, wherein the geometry of the metal sheets for the stator (12) is selected such that after the metal sheets have been stacked on one another, a cooling system (27) is embodied on the outer edge of the stator (12), and an outer jacket face (34) of the cooling system (27) is formed by a gear bell (external cooling).

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18. The method of claim 1, wherein a sealing means (36) is applied in the region of the jacket faces (34) of the cooling system (27).